

In the Claims

1. (Currently Amended) A portable device provided with a display unit (~~101, 201, 301~~) with information-indicating light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) in the surroundings of said display unit (~~101, 201, 301~~), characterized in that the portable device comprises:

- a controller (~~305~~) for defining control commands on the basis of a display unit application and an instantaneous view shown in the display unit (~~101, 201, 301~~);
- a light driver (~~304~~) for controlling the information-indicating light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) based on the control commands, such that the information-indicating light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) are arranged to indicate information concerning an object located outside the current view of the display unit (~~101, 201, 301~~).

2. (Currently Amended) A device according to claim 1, characterized in that said device also includes a controller (~~305~~) for generating control commands for the light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) on the basis of the information transmitted by the display driver (~~303~~), to the light driver (~~304~~).

3. (Currently Amended) A device according to claims 1-2, characterized in that in the surroundings of the display unit (~~101, 201, 301~~), there are at least two light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 302a, 302b, 302c, 302d, 302e, 302f~~) or light unit groups (~~202e, 202f~~) formed of single light units, placed so that they are arranged at an angle of 90 degrees with respect to each other.

4. (Currently Amended) A device according to claims 1-2, characterized in that the light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c,~~

~~202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) are placed around the display unit ~~(101, 201, 301)~~.

5. (Currently Amended) A device according to ~~any of the preceding~~ claims 1, characterized in that it is provided with a light driver ~~(304)~~ for controlling the light units ~~(102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 302a, 302b, 302c, 302d, 302e, 302f)~~ or the light unit groups ~~(202e, 202f)~~ formed of single light units.

6. (Currently Amended) A device according to ~~any of the preceding~~ claims 1, characterized in that it is provided with a controller ~~(305)~~ and a light driver ~~(304)~~ for controlling the light units ~~(102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f)~~ according to the application shown in the display unit ~~(101, 201, 301)~~.

7. (Currently Amended) A device according to ~~any of the preceding~~ claims 1, characterized in that it is provided with a controller ~~(305)~~ for defining the control commands of the light units ~~(102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f)~~ and for synchronizing the display unit ~~(101, 201, 301)~~ with respect to the view.

8. (Currently Amended) A device according to claim 7, characterized in that it is provided with a light driver ~~(304)~~ for controlling the functions and properties of the light units ~~(102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f)~~ according to the control commands generated by the controller ~~(305)~~.

9. (Currently Amended) A method for improving information execution capability of a display unit ~~(101, 201, 301)~~ of a portable device,

where in the surroundings of the display unit there are placed information indicating light units ~~(102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f)~~,

characterized in that the method comprises steps of

- defining in a controller (305) of the portable device a control command on the basis of a display unit application and an instantaneous view shown in the display unit (101, 201, 301) in order to control the information-indicating light units;

- controlling the information-indicating light units (102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f) through a light driver (304) based on the control command defined in the controller (305), such that information concerning an object located outside the current view of the display unit (101, 201, 301) is indicated by means of the information-indicating light units (102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f).

10. (Currently Amended) A method according to claim 9, characterized in that in the controller (305), there are generated functional commands to the light driver (304) in order to control the light units (102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f) on the basis of the information of the view in the display unit (101, 201, 301), transmitted by the display driver (303) and the application of the display unit (101, 201, 301).

11. (Currently Amended) A method according to claim 9 or 10, characterized in that the light units (102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f) are arranged in the surroundings of the display unit (101, 201, 301), at an angle of 90 degrees with respect to each other, in order to indicate the direction, with respect to the view shown in the display unit (101, 201, 301), by means of the light units (102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f).

12. (Currently Amended) A method according to any of the preceding claims 9-11, characterized in that the light units are arranged in light unit groups (202e, 202f), each of which groups can be separately controlled by the light driver (304).

13. (Currently Amended) A method according to ~~any of the preceding~~ claims 9-12, characterized in that in the display unit (101, ~~201, 301~~), there are shown objects under observation, and simultaneously the light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) controlled by the light driver (304) are used for generating information in the view of the display.

14. (Currently Amended) A method according to ~~any of the preceding~~ claims 9-13, characterized in that the approaching of an object located outside the view of the display unit (101, ~~201, 301~~) to the area of the view shown in the display unit (101, ~~201, 301~~) is indicated by generating in the light driver (304) a sense stimulus by means of those light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) that are located in the same direction with respect to the view as the target in question.

15. (Currently Amended) A method according to claim 14, characterized in that the light driver (304) is used for controlling a controllable light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~), located in a given direction with respect to the view of the display unit (101, ~~201, 301~~), so that the intensity of the light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) is increased as the object approaches the display unit.

16. (Currently Amended) A method according to ~~any of the preceding~~ claims 9-15, characterized in that the threatening factors of the game application represented in the view are indicated by adjusting the controllable light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) that is located in the direction of the threatening factor with respect to the view by means of the light driver (304) to emit a given wavelength of light, and possible proceeding directions are indicated by controlling the controllable light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a,~~

~~202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) that is located in the direction of the proceeding direction with respect to the view by means of the light driver (304) to emit another given wavelength of light.

17. (Currently Amended) A method according to ~~any of the preceding~~ claims 9-16, characterized in that in the application shown in the view, the direction of a given searched target that is located outside the view, with respect to the view is indicated by activating the controllable light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) located in the direction of the target by means of the light driver (304) in a given way defined in the application.

18. (Currently Amended) A software for improving information execution capability of a display unit (~~101, 201, 301~~) of a portable device, characterized in that it includes steps:

- there is defined a given controllable light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) composed of light units (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) arranged in the surroundings of the display unit (~~101, 201, 301~~) on the basis of the application and an instantaneous view shown in the display unit (~~101, 201, 301~~);
- there are generated, on the basis of the application of the display unit (~~101, 201, 301~~), certain control commands in order to control the defined light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) according to the application and the instantaneous view of the display unit (~~101, 201, 301~~) and an object located outside the current view, and;
- the generated control commands are transmitted to a light driver (304) in order to control the defined light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) for giving information about the object located outside the current view of the display unit (~~101, 201, 301~~).

19. (Currently Amended) A system for improving information execution capability of a display unit (~~101, 201, 301~~) of a portable device, characterized in that it includes
- software means for defining a controllable light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) on the basis of the information of the application shown in the display unit (~~101, 201, 301~~) and an object located outside the current view of the display unit, and;
 - software means for generating certain control commands on the basis of the information of the application of the display unit (~~101, 201, 301~~) and the object located outside the current view of the display unit in order to control a given light unit group (~~102a, 102b, 102c, 102d, 102e, 102f, 102g, 102h, 202a, 202b, 202c, 202d, 202e, 202f, 302a, 302b, 302c, 302d, 302e, 302f~~) for giving information about the object located outside the current view of the display unit (~~101, 201, 301~~).